

FIG. 1

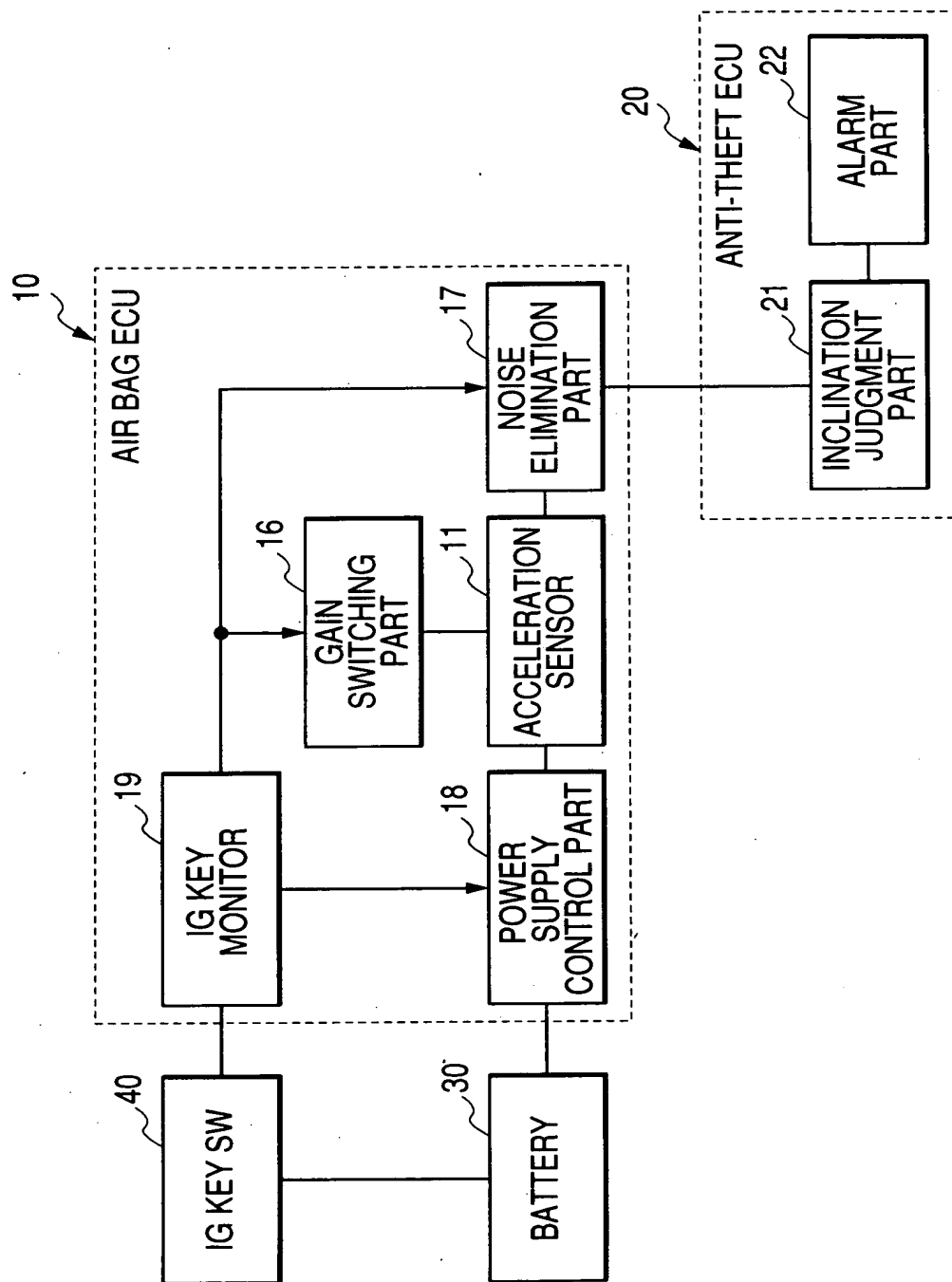


FIG. 2A

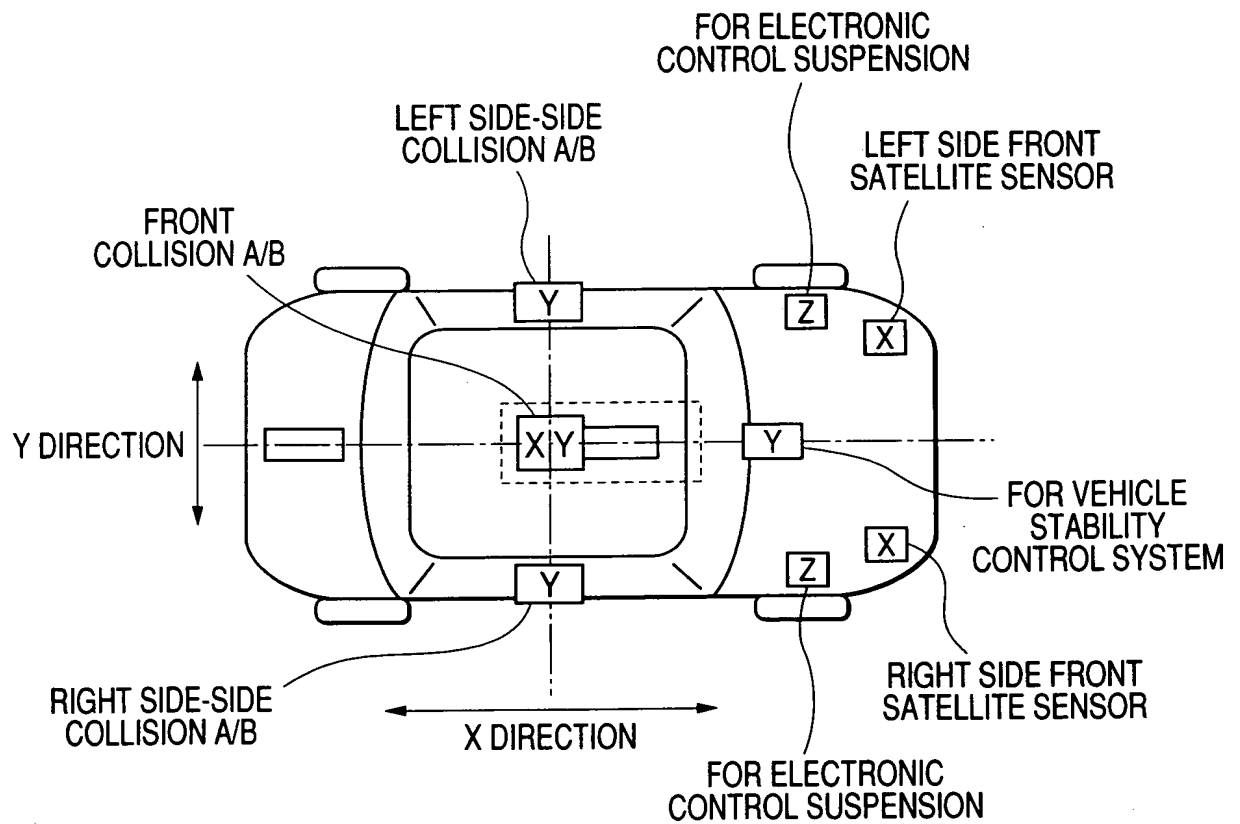
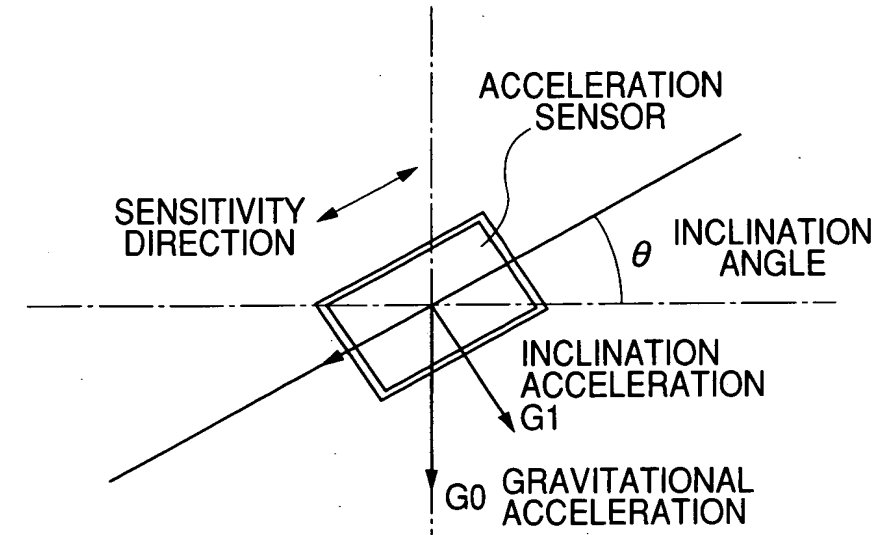


FIG. 2B

$$\begin{aligned} &(\text{ACCELERATION SENSOR OUTPUT} = G_0 \cdot \cos(90^\circ - \theta)) \\ &(\text{LIFT AMOUNT} = \text{VEHICLE WIDTH} \cdot \sin \theta) \end{aligned}$$

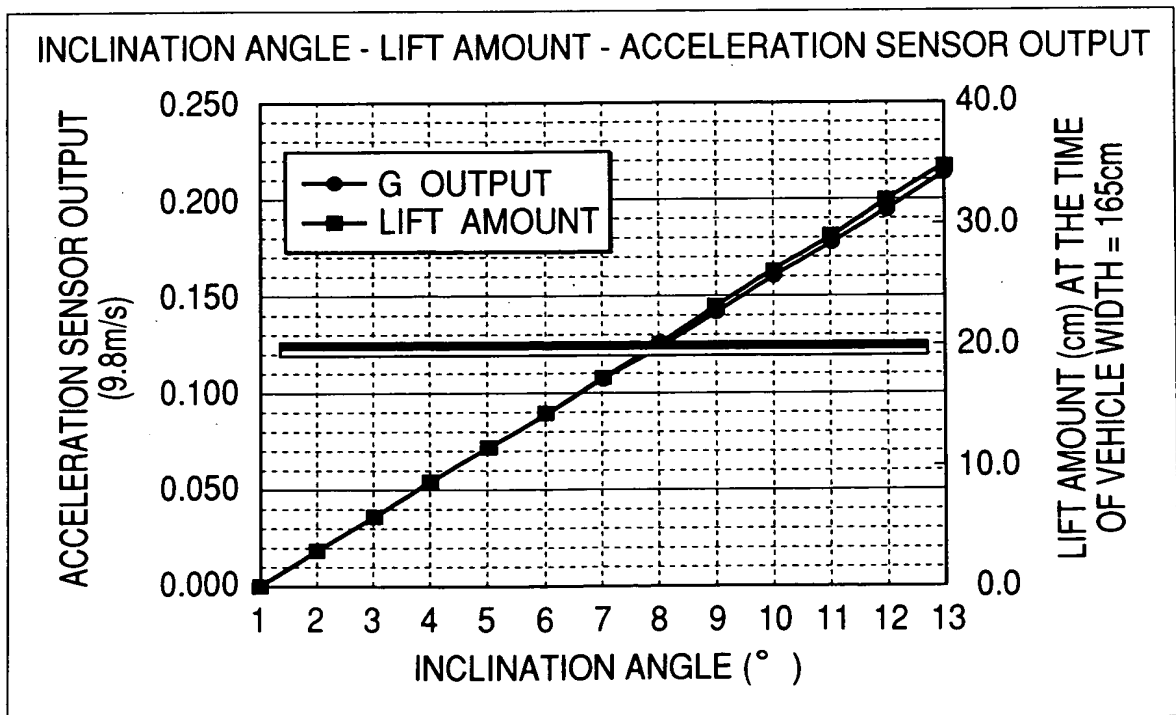
FIG. 2C

FIG. 3

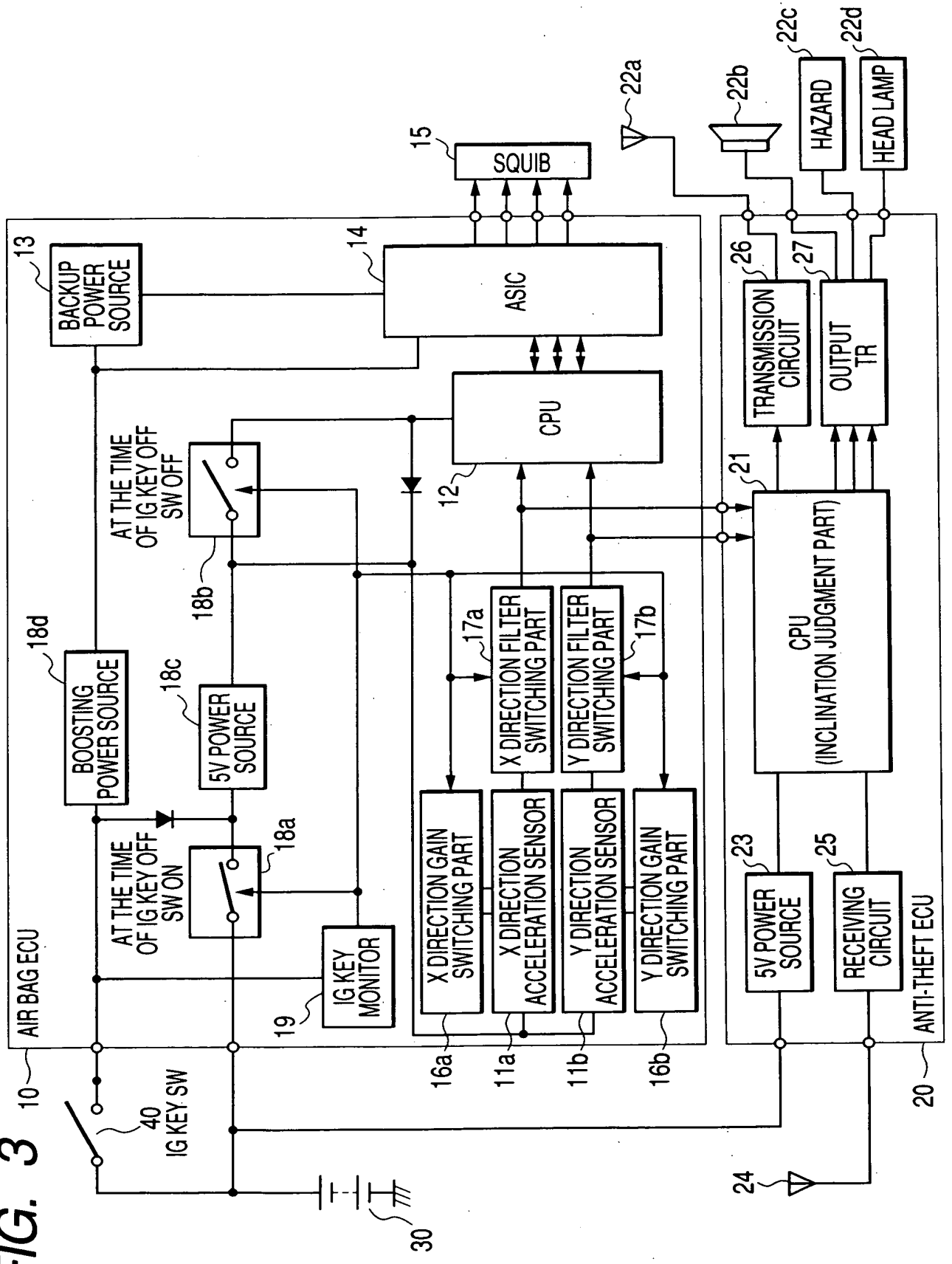


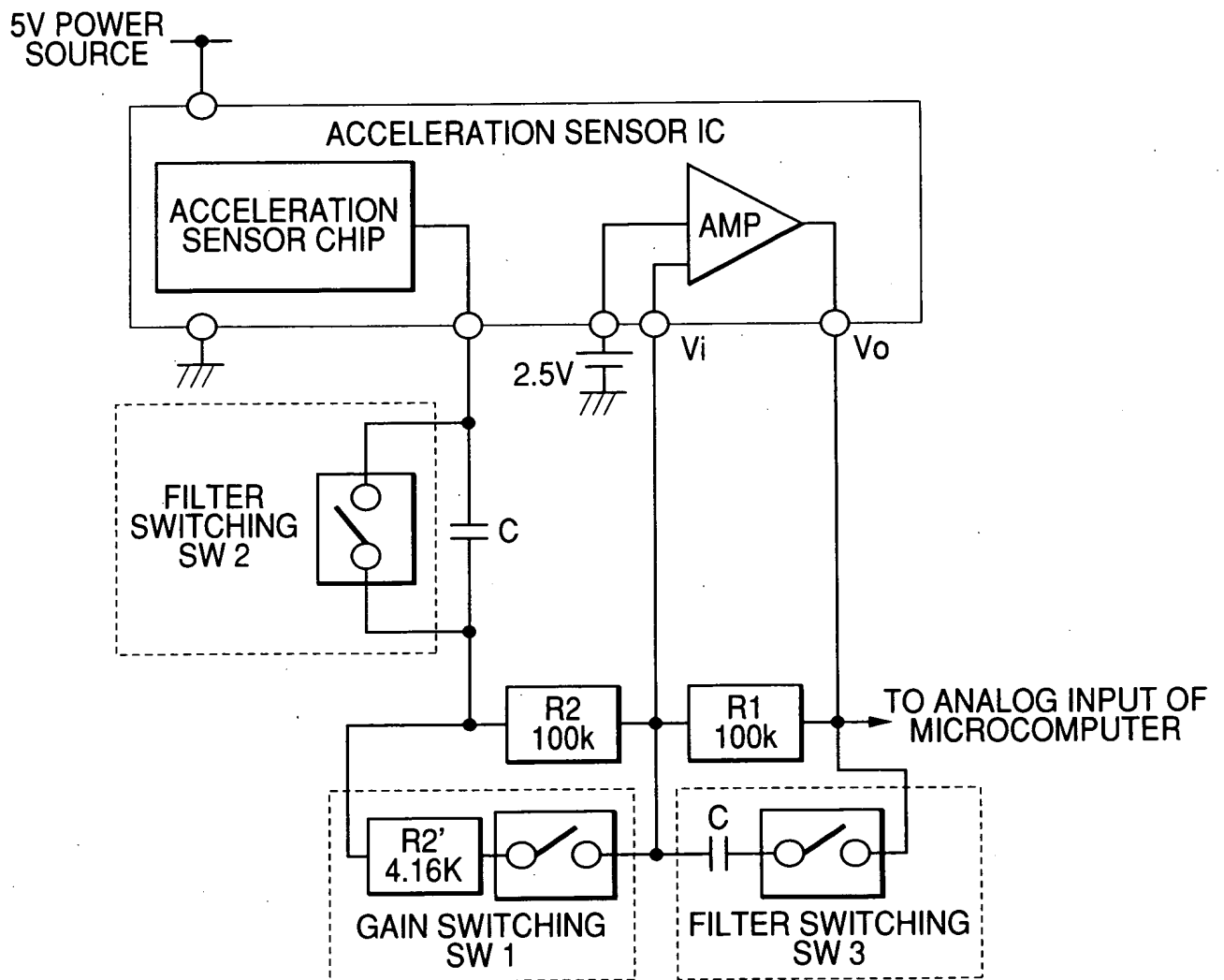
FIG. 4

FIG. 5A

IG KEY	GAIN SWITCHING SW 1	FILTER SWITCHING SW 2	FILTER SWITCHING SW 3	GAIN	CUTOFF FREQUENCY
ON	OFF	OFF	OFF	$\pm 50G$	200Hz
OFF	ON	ON	ON	$\pm 2G$	50Hz

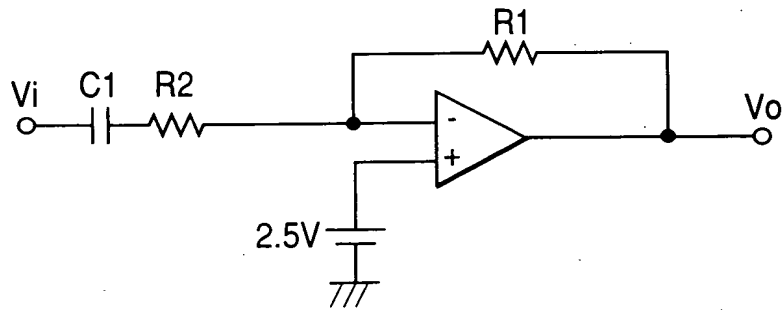
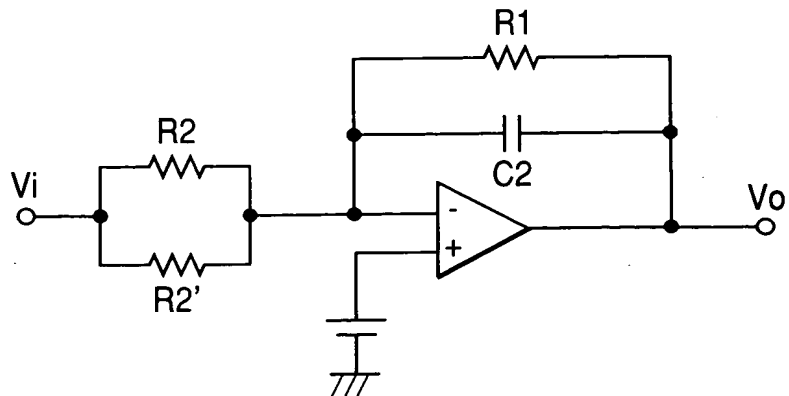
FIG. 5B**FIG. 5C**

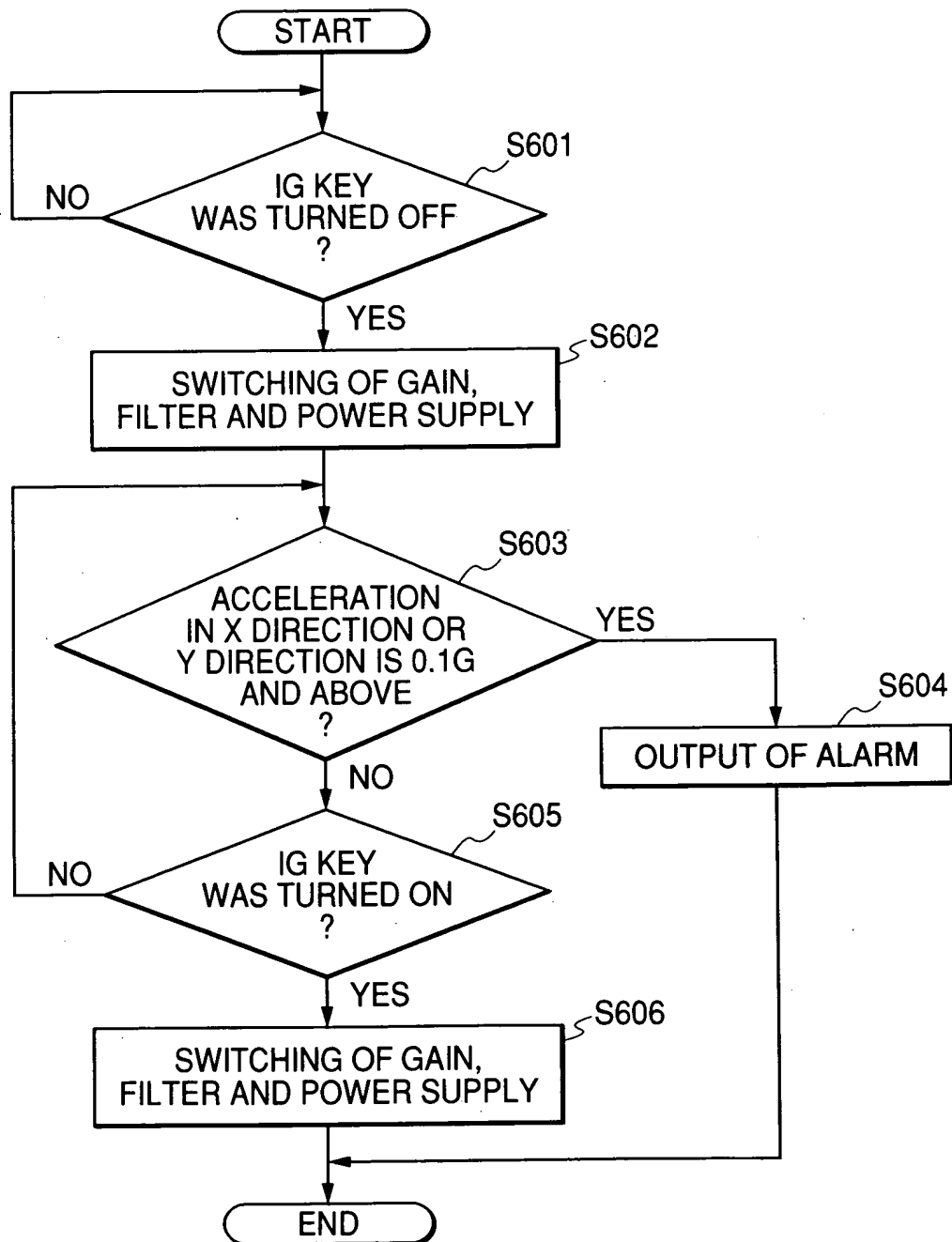
FIG. 6

FIG. 7

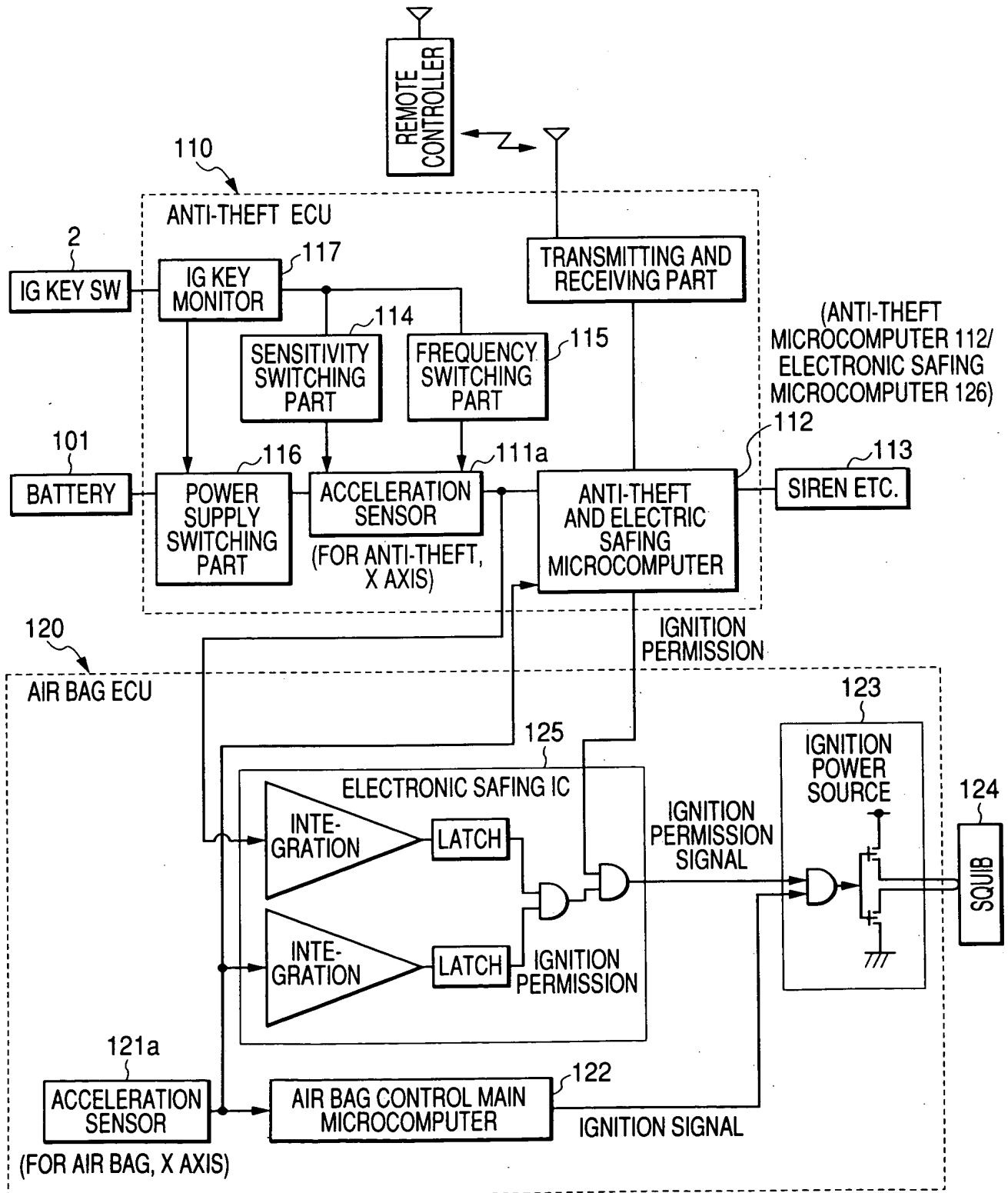


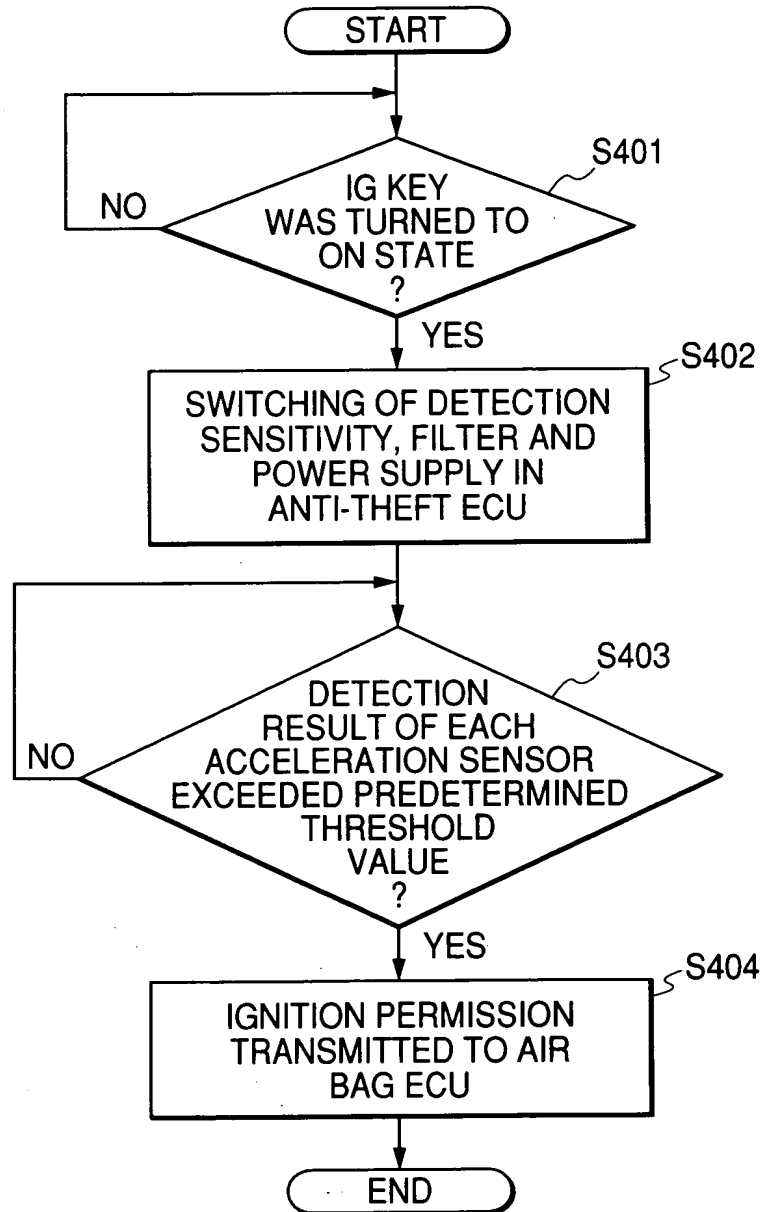
FIG. 8

FIG. 9

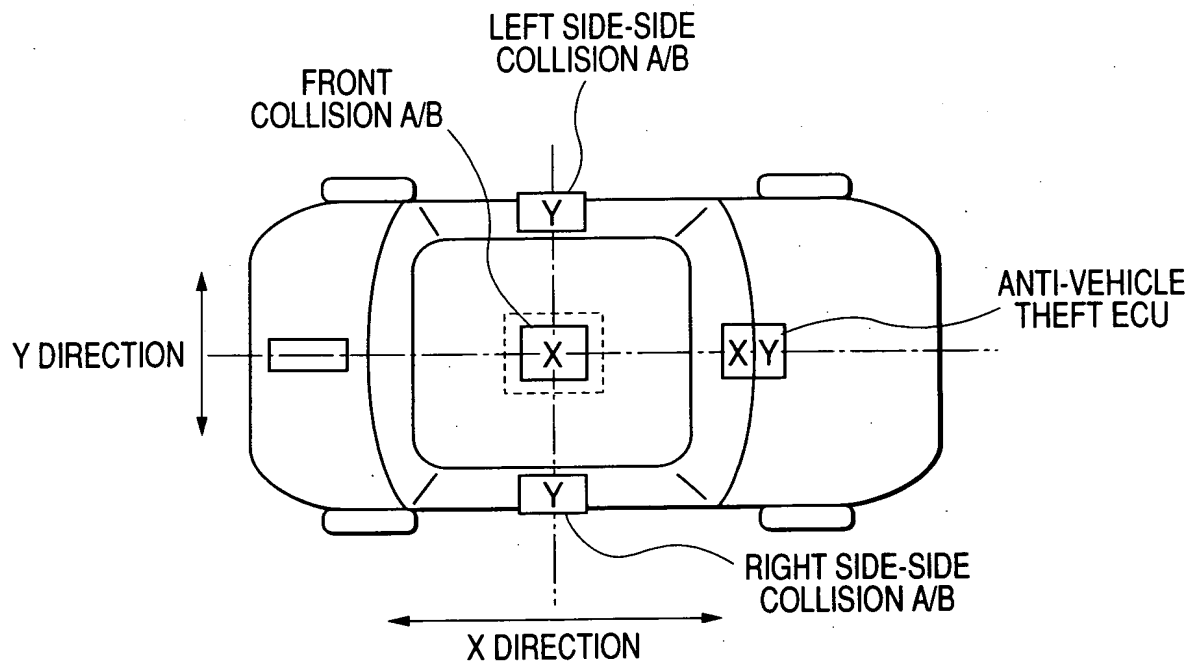


FIG. 10

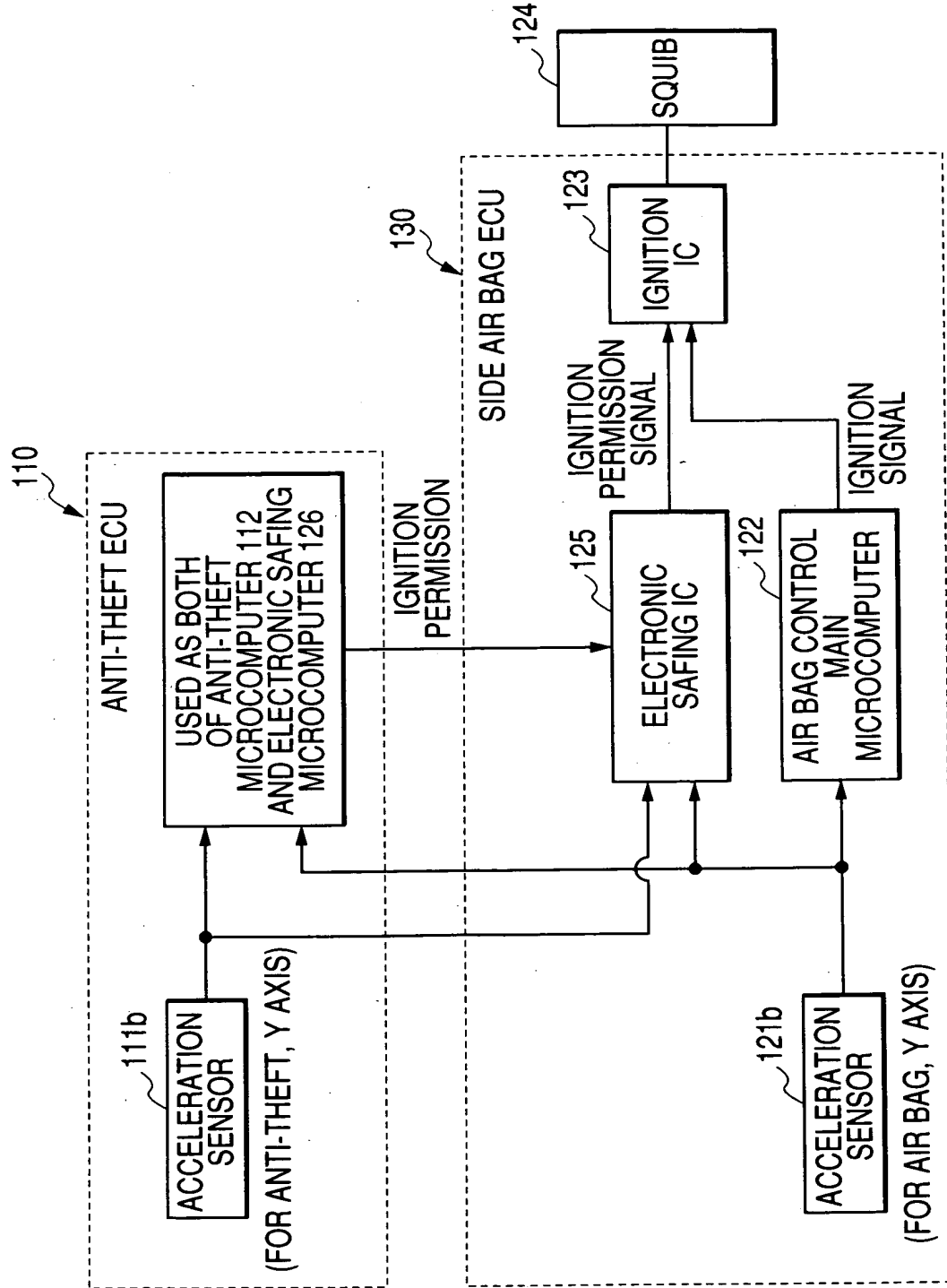


FIG. 11

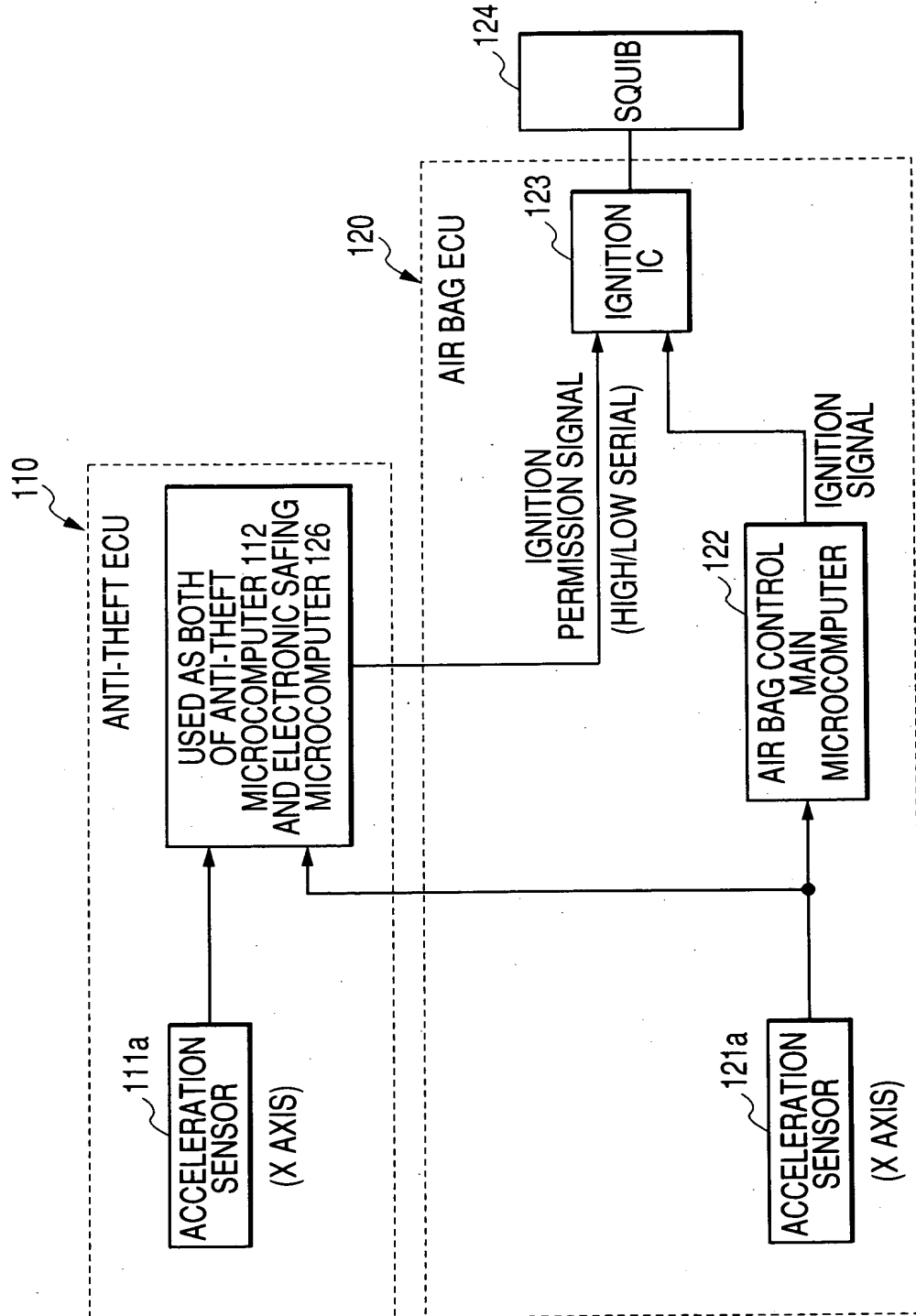


FIG. 12

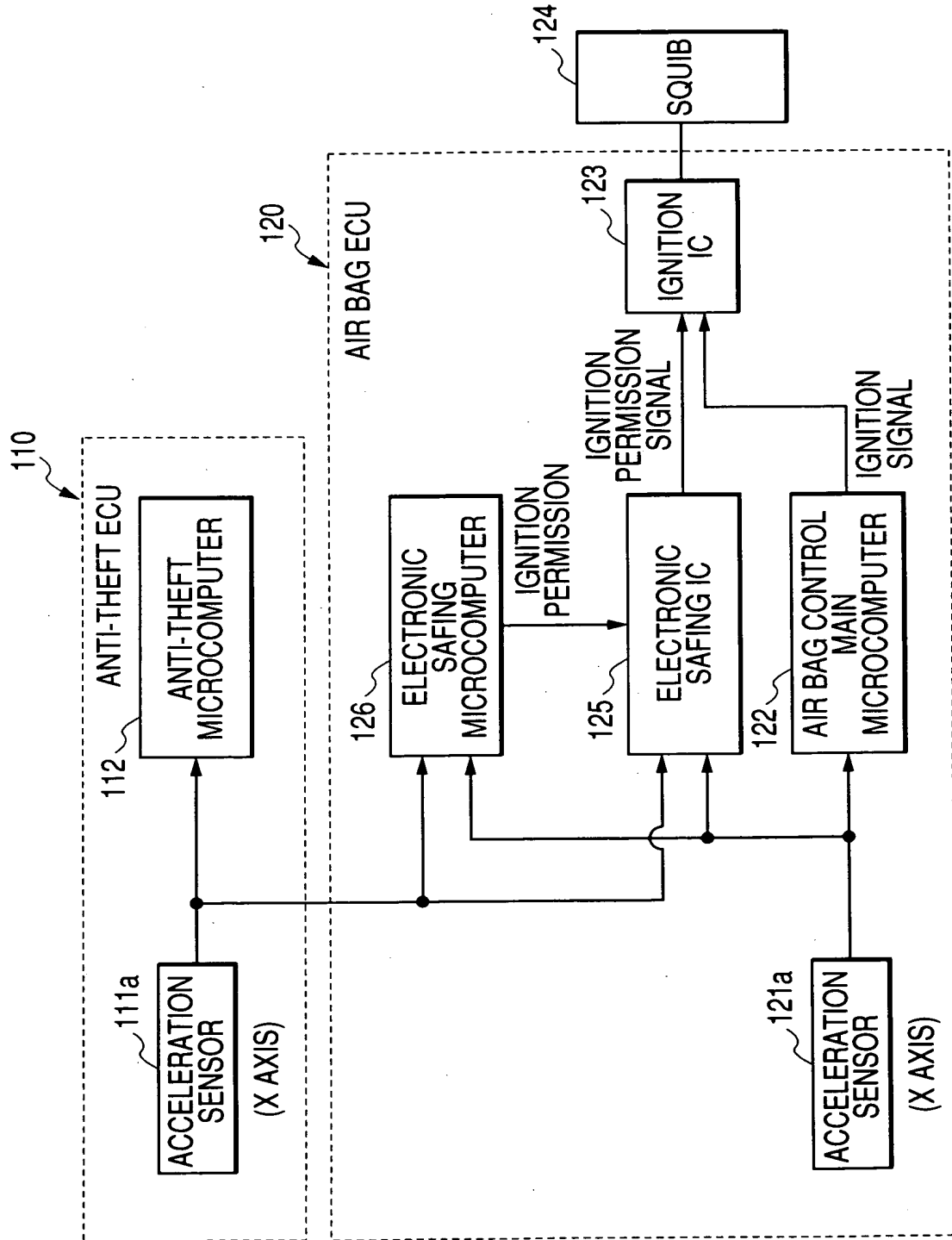


FIG. 13

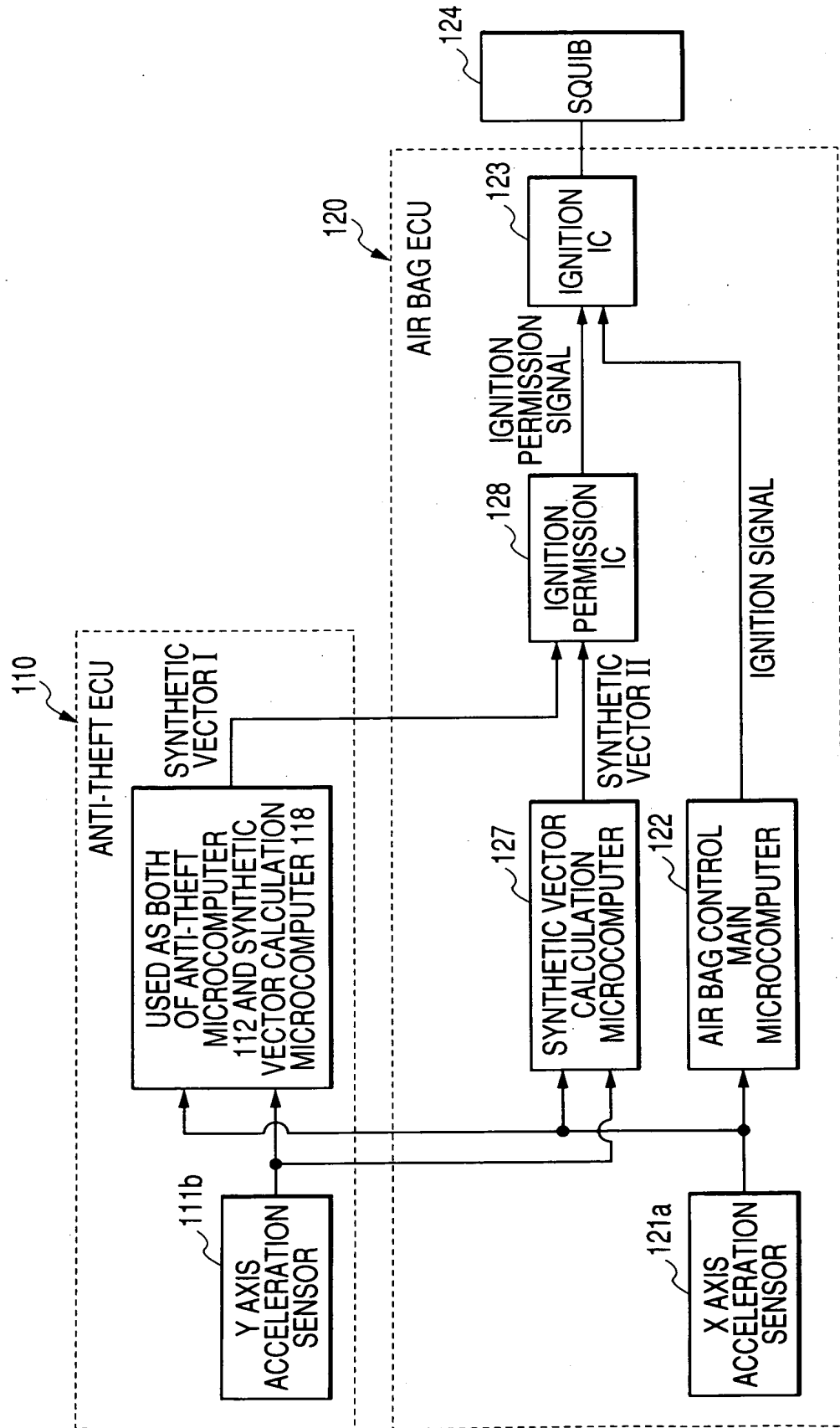


FIG. 14

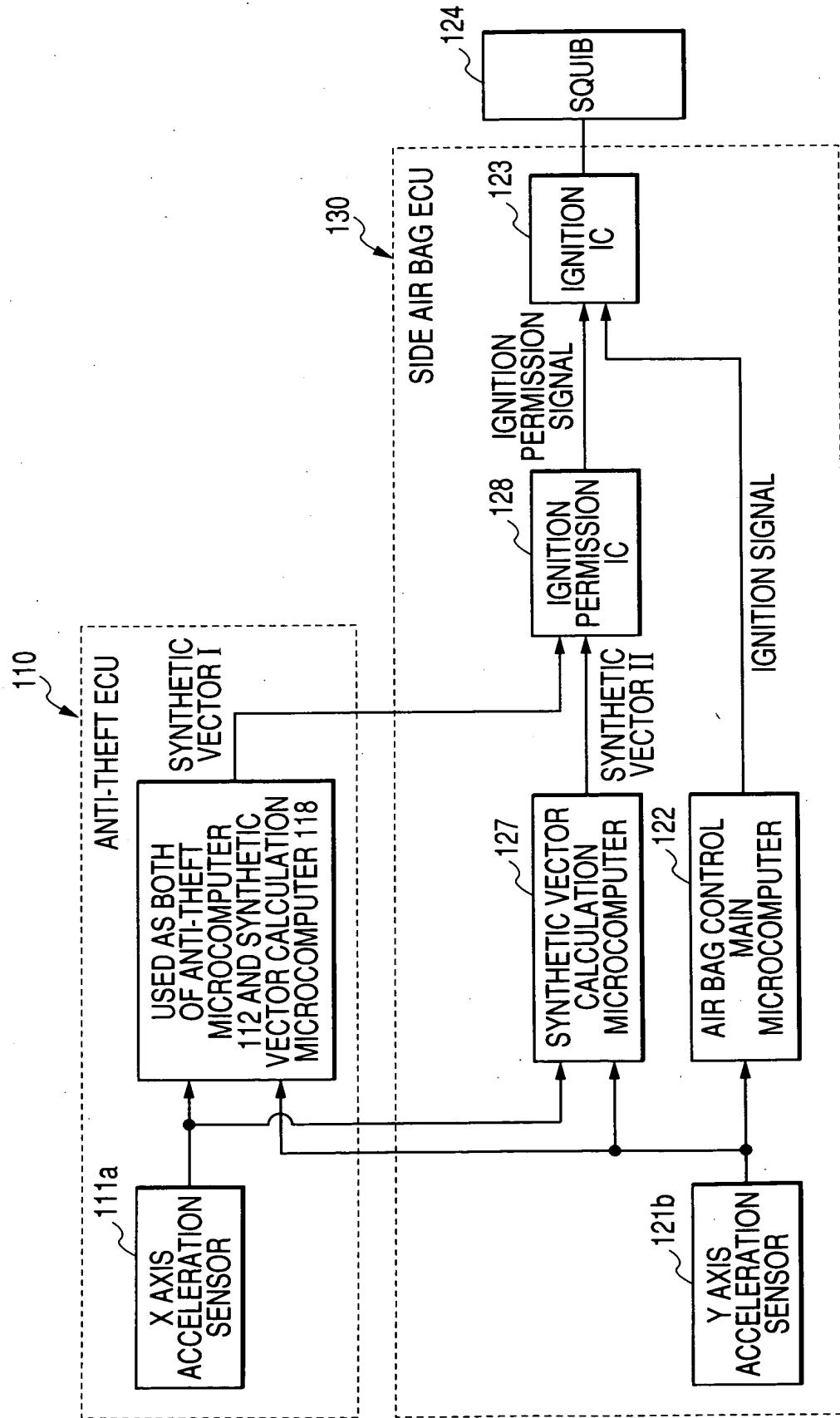


FIG. 15

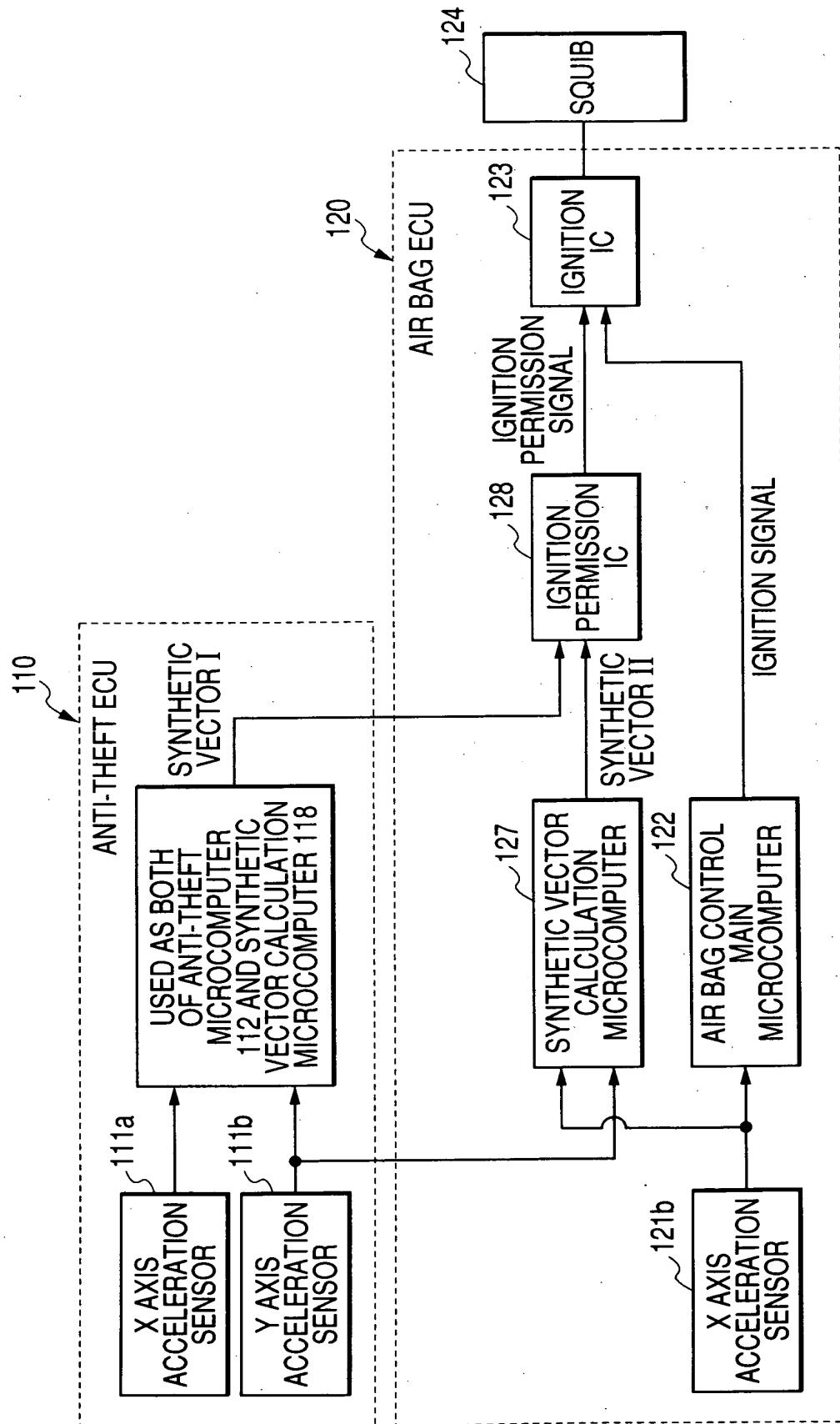


FIG. 16

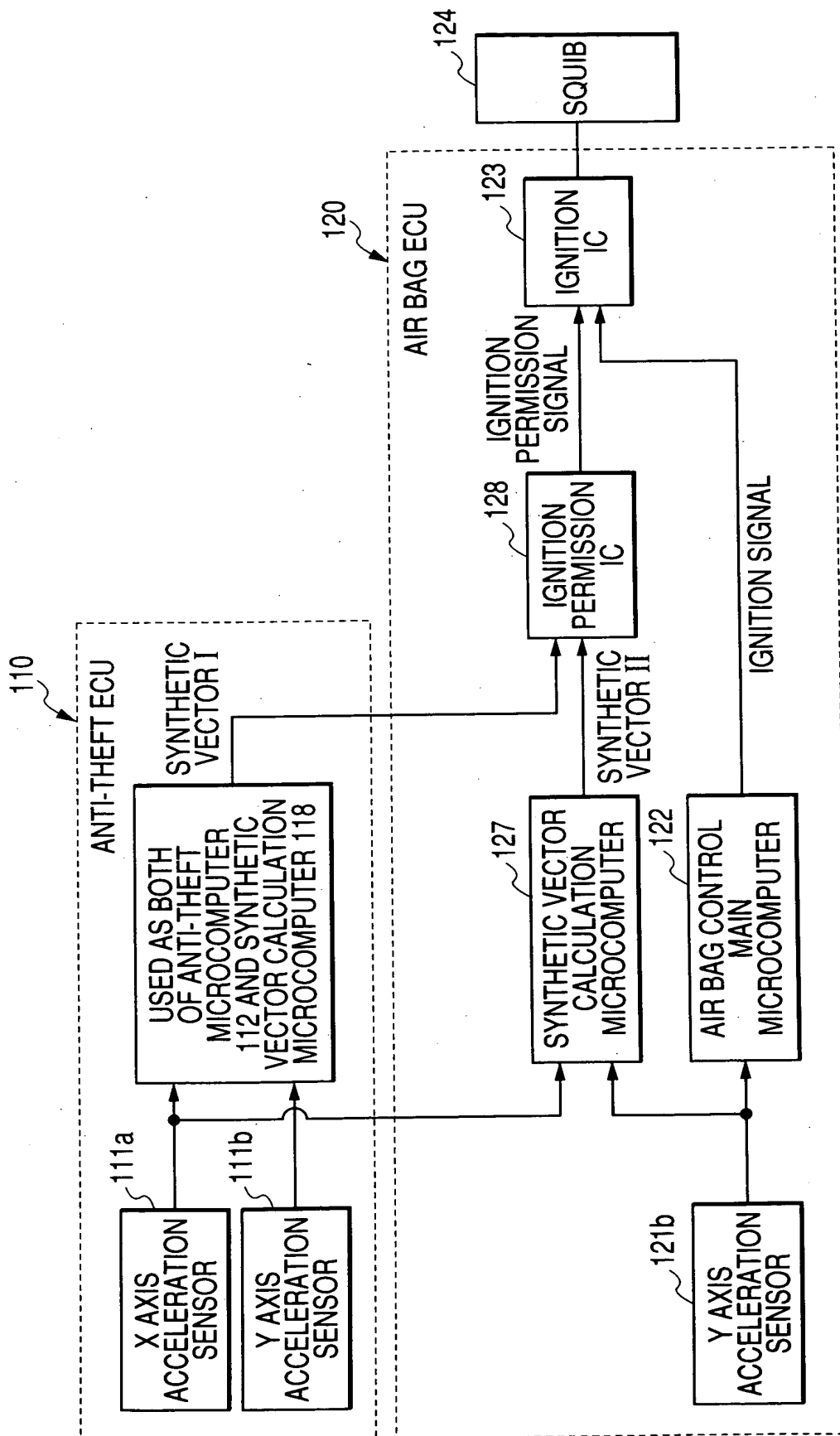


FIG. 17

